

## EFFICACY OF BIOCONTROL AGENTS, PLANT EXTRACTS AND ORGANIC AMMENDMENT AGAINST BLIGHT, POWDERY MILDEW AND WILT DISEASES IN CUMIN

L.K. Chhata<sup>1\*</sup>, Jeeva Ram Verma<sup>2</sup>, S.K. Sharma<sup>3</sup>, and N.L. Dangi<sup>4</sup>

<sup>1</sup>Dryland Farming Research Station (MPUAT), Bhilwara-313001(Rajasthan)

<sup>2</sup>Chief Scientist and Head KVK Guda Malani, Barmer (Rajasthan)

<sup>3</sup>Zonal Director ResearchARS (MPUAT) Udaipur

<sup>4</sup> Department of Entomology, RCA, (MPUAT) Udaipur

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**Abstract:** Field experiment was conducted to study the effect of the different organic modules for management of *Alternaria blight* Powdery mildew and wilt diseases of cumin (*Cuminum cyminum* L.). Treatment module comprising of seed treatment with *Trichoderma herzeanum* @8g/kg seed + three foliar spray of Azadirachtin @2ml/lit. at 45-60DAS+ 60-75DAS+ and at 90-100 DAS was found significantly superior over control and gave maximum seed yield of cumin 5.76q/ha. in comparison to control which gave only 3.43q/ha. cumin seed yield. This organic module was found superior in respect to disease control and effectively controlled all three diseases and record minimum disease intensity of *Alternaria blight* (12.49%) Powdery mildew 14.93% and wilt (6.20%). Where as in control 26.33% ,28.66% and 12.28% disease intensity was observed respectively. This module gave the highest net return of Rs.28013 /over control.

**Keywords** Cumin, *Alternaria blight*, Powdery mildew, *Trichoderma viride*, Azadirachtin

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\*Corresponding Author